INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Frank O'Bannon
Governor

Lori F. Kaplan
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

September 12, 2003

TO: Interested Parties / Applicant

RE: State Plating, Inc. / 095-11721-00111

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, ISTA Building, 150 W. Market Street, Suite 618, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

(1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
(2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
(3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

(1) the name and address of the person making the request;
(2) the interest of the person making the request;
(3) identification of any persons represented by the person making the request;
(4) the reasons, with particularity, for the request;
(5) the issues, with particularity, proposed for considerations at any hearing; and
(6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER.dot 8/11/03

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MINOR SOURCE OPERATING PERMIT
OFFICE OF AIR QUALITY

State Plating, Inc.
450 North, 9th Street
Elwood, Indiana 46036

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 095-11721-00111	
Issued by: **Original signed by** Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: **September 12, 2003** Expiration Date: **September 12, 2008**

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates stationary decorative chromium electroplating plant using hexavalent chrome.

Authorized Individual:	Manager
Source Address:	450 North 9th Street, Elwood, Indiana 46036
Mailing Address:	450 North 9th Street, Elwood, Indiana 46036
General Source Phone:	(765) 552-5047
SIC Code:	3471
County Location:	Madison
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source, under PSD; Minor Source, Section 112 of the Clean Air Act Not in 1 of 28 Source Categories

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

(a) One (1) Decorative Chromium Electroplating Operation (identified as Big Auto) consisting of:

(1) Two (2) decorative chromium electroplating tanks, identified as BA1 and BA2, using a hexavalent chromium bath, equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1967.

(2) One (1) soak cleaner tank with a maximum capacity of 2000 gallons.

(3) One (1) electro acid tank with a maximum capacity of 1000 gallons.

(4) One (1) strong acid tank with a maximum capacity of 1000 gallons.

(5) One (1) electro cleaner tank with a maximum capacity of 1000 gallons.

(6) One (1) bright nickel plating tank with a maximum capacity of 16,000 gallons.

(b) One (1) Decorative Chromium Electroplating Operation (identified as Ponca) consisting of:

(1) One (1) decorative chromium electroplating tank, identified as HO1, using a hexavalent chromium bath and equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1977.

(2) Two (2) soak cleaner tanks, each with a maximum capacity of 2500 gallons.

(3) One (1) electro acid tank with a maximum capacity of 2500 gallons.

(4) One (1) strong acid tank with a maximum capacity of 2000 gallons.

(5) One (1) electro cleaner tank with a maximum capacity of 2500 gallons.

(6) Two (2) bright nickel plating tanks of 15,000 gallons and 2500 gallons capacity.

(7) One (1) semi bright nickel plating tank with a maximum capacity of 7000 gallons.

(c) One (1) Decorative Chromium Electroplating Operation (identified as Udylite) consisting of:

(1) One (1) decorative chromium electroplating tank, identified as UD1, using a hexavalent chromium bath and equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1981.

(2) One (1) soak cleaner tank with a maximum capacity of 400 gallons.

(3) One (1) electro acid tank with a maximum capacity of 300 gallons.

(4) One (1) strong acid tank with a maximum capacity of 100 gallons.

(5) Two (2) electro cleaner tanks, each with a maximum capacity of 300 gallons.

(6) One (1) bright nickel plating tank with a maximum capacity of 3000 gallons.

(d) One (1) Decorative Chromium Electroplating Operation (identified as Eagle or Ponca) consisting of:

(1) Two (2) decorative chromium electroplating tanks, identified as PO1 and PO2, using a hexavalent chromium bath, equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1984.

(2) One (1) soak cleaner tank with a maximum capacity of 1600 gallons.

(3) One (1) electro acid tank with a maximum capacity of 1600 gallons.

(4) One (1) strong acid tank with a maximum capacity of 850 gallons.

(5) Two (2) electro cleaner tanks, each with a maximum capacity of 1600 gallons.

(6) One (1) bright nickel plating tank with a maximum capacity of 14,000 gallons.

(e) One (1) Kewanee boiler, burning natural gas, with a maximum heat input capacity of 12.55 MMBtu per hour and exhausting at stack A. This unit was installed in 1982.

(f) One (1) Johnston boiler, burning natural gas, with a maximum heat input capacity of 20.78 MMBtu per hour and exhausting at stack B. This unit was installed in 2001.

(g) One (1) degreasing operation, using alkaline based spray cleaner with a maximum throughput rate of 1250 gallons per year. This unit was constructed in 1989.

(h) One (1) natural gas fired water spray line heater, with a maximum heat input capacity of 1.75 MMBtu per hour. This unit was installed in 1982.

(i) One (1) natural gas fired rack coating oven, with a maximum heat input capacity of 0.8 MMBtu per hour. This unit was installed in 1982.

SECTION B GENERAL CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to operate does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

B.5 Modification to Permit [326 IAC 2]

All requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.6 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.

(c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

B.7 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each emissions unit:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.

(c) A copy of the PMP's shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMP whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IA 1-6-3 for that unit.

B.8 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality

100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2

B.9 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2] [IC13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.10 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)] :

(a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.

(b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).

(c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

B.11 Annual Fee Payment [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.

(b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.5 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-7-1(34).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements

C.6 Performance Testing [326 IAC 3-6]

(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date.

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14 days) prior to the actual date.

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.7 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

Compliance Monitoring Requirements

C.8 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.9 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.10 Compliance Response Plan - Preparation and Implementation

(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan under 40 CFR 60/63 , such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring

conditions. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:

(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.

(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan to include such response steps taken.

The OMM Plan shall be submitted within the time frames specified by the applicable 40 CFR60/63 requirement.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan; or

(2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.

(4) Failure to take reasonable response steps shall be considered a deviation from the permit.

(c) The Permittee is not required to take any further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.

(3) An automatic measurement was taken when the process was not operating.

(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

(d) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

Record Keeping and Reporting Requirements

C.11 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.12 General Record Keeping Requirements [326 IAC 2-6.1-5]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.

C.13 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) Unless otherwise specified in this permit, any reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

(d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description:

(a) One (1) Decorative Chromium Electroplating Operation (identified as Big Auto) consisting of:

(1) Two (2) decorative chromium electroplating tanks, identified as BA1 and BA2, using a hexavalent chromium bath, equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1967.

(2) One (1) soak cleaner tank with a maximum capacity of 2000 gallons.

(3) One (1) electro acid tank with a maximum capacity of 1000 gallons.

(4) One (1) strong acid tank with a maximum capacity of 1000 gallons.

(5) One (1) electro cleaner tank with a maximum capacity of 1000 gallons.

(6) One (1) bright nickel plating tank with a maximum capacity of 16,000 gallons.

(b) One (1) Decorative Chromium Electroplating Operation (identified as Ponca) consisting of:

(1) One (1) decorative chromium electroplating tank, identified as HO1, using a hexavalent chromium bath and equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1977.

(2) Two (2) soak cleaner tanks, each with a maximum capacity of 2500 gallons.

(3) One (1) electro acid tank with a maximum capacity of 2500 gallons.

(4) One (1) strong acid tank with a maximum capacity of 2000 gallons.

(5) One (1) electro cleaner tank with a maximum capacity of 2500 gallons.

(6) Two (2) bright nickel plating tanks of 15,000 gallons and 2500 gallons capacity.

(7) One (1) semi bright nickel plating tank with a maximum capacity of 7000 gallons.

(c) One (1) Decorative Chromium Electroplating Operation (identified as Udylite) consisting of:

(1) One (1) decorative chromium electroplating tank, identified as UD1, using a hexavalent chromium bath and equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1981.

(2) One (1) soak cleaner tank with a maximum capacity of 400 gallons.

(3) One (1) electro acid tank with a maximum capacity of 300 gallons.

(4) One (1) strong acid tank with a maximum capacity of 100 gallons.

(5) Two (2) electro cleaner tanks, each with a maximum capacity of 300 gallons.

(6) One (1) bright nickel plating tank with a maximum capacity of 3000 gallons.

Facility Description (Continued):

(d) One (1) Decorative Chromium Electroplating Operation (identified as Eagle or Ponca) consisting of:

(1) Two (2) decorative chromium electroplating tanks, identified as PO1 and PO2, using a hexavalent chromium bath, equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1984.

(2) One (1) soak cleaner tank with a maximum capacity of 1600 gallons.

(3) One (1) electro acid tank with a maximum capacity of 1600 gallons.

(4) One (1) strong acid tank with a maximum capacity of 850 gallons.

(5) Two (2) electro cleaner tanks, each with a maximum capacity of 1600 gallons.

(6) One (1) bright nickel plating tank with a maximum capacity of 14,000 gallons.

Emissions Limitations and Standards [326 IAC 2-6.1-5(1)]

D.1.1 General Provisions Relating to HAPs [326 IAC 20-1-1] [40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart N.

D.1.2 Chromium Electroplating and Anodizing NESHAP [326 IAC 20-8-1] [40 CFR Part 63, Subpart N]

The provisions of 40 CFR 63, Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, which are incorporated by reference as 326 IAC 20-8-1, apply to six (6) electroplating tanks. A copy of this rule is attached.

D.1.3 Chromium Emissions Limitation [40 CFR 63.342(c)] [40 CFR 63.343(a)(1)&(2)] [326 IAC 20-8-1]

(a) The emission limitations in this condition apply only during tank operation, and also apply during periods of startup and shutdown as these are routine occurrences for tanks subject to 326 IAC 20-8-1. The emission limitations do not apply during periods of malfunction.

(b) During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from six (6) electroplating tanks by:

(1) Not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed one-hundredth milligrams of total chromium per dry standard cubic meter of ventilation air (0.01 mg/dscm) [equivalent to four and four-tenths times ten raised to the power of negative six grains of total chromium per dry standard cubic foot of ventilation air (4.4×10^{-6} gr/dscf)]; or

(2) Not allowing the surface tension of the electroplating bath contained within the tank to exceed forty-five dynes per centimeter (45 dynes/cm) [equivalent to three and one-tenth times ten raised to the power of negative three pound-force per foot (3.1×10^{-3} lb_f/ft)] at any time during operation of the six (6) electroplating tanks when a chemical fume suppressant containing a wetting agent is used.

D.1.4 Work Practice Standards [40 CFR 63.342(f)][326 IAC 20-8-1]

The following work practice standards apply to six (6) electroplating tanks:

(a) At all times, including periods of startup, shutdown, malfunction and excess emissions, the Permittee shall operate and maintain six (6) electroplating tanks, including the fume suppressant containing a wetting agent and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the Operation and Maintenance Plan (OMP) required by Condition D.1.5.

(b) Malfunctions and excess emissions shall be corrected as soon as practicable after their occurrence in accordance with the OMP required by Condition D.1.5.

(c) These operation and maintenance requirements are enforceable independent of emissions limitations or other requirements in this section.

(d) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to IDEM, OAQ, which may include, but is not limited to, monitoring results; review of the OMP, procedures, and records; and inspection of the source.

(e) Based on the results of a determination made under paragraph (d) of this condition, IDEM, OAQ may require that the Permittee make changes to the OMP required by Condition D.1.5. Revisions may be required if IDEM, OAQ finds that the plan:

(1) Does not address a malfunction or period of excess emissions that has occurred;

(2) Fails to provide for the operation of six (6) electroplating tanks, the fume suppressant-containing a wetting agent and process monitoring equipment during a malfunction or period of excess emissions in a manner consistent with good air pollution control practices; or

(3) Does not provide adequate procedures for correcting malfunctioning process equipment, fume suppressant-containing a wetting agent, monitoring equipment or other causes of excess emissions as quickly as practicable.

D.1.5 Operation and Maintenance Plan [40 CFR 63.342(f)(3)][326 IAC 20-8-1]

(a) The Permittee shall prepare an Operation and Maintenance Plan (OMP) to be implemented no later than the startup date of six (6) electroplating tanks. The OMP shall specify the operation and maintenance criteria for six (6) electroplating tanks, the fume suppressant-containing a wetting agent, and monitoring equipment and shall include the following elements:

(1) Manufacturers recommendations for maintenance of the monitoring equipment used to measure surface tension;

(2) A standardized checklist to document the operation and maintenance criteria for the six (6) electroplating tanks, the air pollution control device, the add-on air pollution control device and the monitoring equipment.

(3) Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions or periods of excess emissions as indicated by monitoring data do not occur.

(4) A systematic procedure for identifying malfunctions and periods of excess emissions of six (6) electroplating tanks, the air pollution control device, the add-on air pollution control device and monitoring equipment; and for implementing corrective actions to address such malfunctions and periods of excess emissions.

(b) The Permittee may use applicable standard operating procedures (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans such as the PMP required in Condition D.1.7, as the OMP, provided the alternative plans meet the above listed criteria in Condition D.1.5(a).

(c) If the OMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction or period of excess emissions at the time the plan is initially developed, the Permittee shall revise the OMP within forty-five (45) days after such an event occurs. The revised plan shall include procedures for operating and maintaining six (6) electroplating tanks, the air pollution control device, the add-on air pollution control device and the monitoring equipment, during similar malfunction or period of excess emissions events, and a program for corrective action for such events.

(d) If actions taken by the Permittee during periods of malfunction or period of excess emissions are inconsistent with the procedures specified in the OMP, the Permittee shall record the actions taken for that event and shall report by phone such actions within two (2) working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within seven (7) working days after the end of the event, unless the Permittee makes alternative reporting arrangements, in advance, with IDEM, OAQ.

(e) The Permittee shall keep the written OMP on record after it is developed to be made available, upon request, by IDEM, OAQ for the life of six (6) electroplating tanks, or until the tank is no longer subject to the provisions of 40 CFR 63.340. In addition, if the OMP is revised, the Permittee shall keep previous versions of the OMPs on record to be made available for inspection, upon request by IDEM, OAQ for a period of five (5) years after each revision to the plan.

D.1.6 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.343(c)][326 IAC 20-8-1]

(a) Pursuant to 40 CFR 63.343(c)(5)(ii) and (iii), when using a wetting agent in the electroplating bath to comply with the limits specified in Condition D.1.3, the Permittee shall monitor the surface tension of the electroplating baths. Operation of the six (6) electroplating tanks at a surface tension greater than 45 dynes per centimeter shall constitute noncompliance with the standards.

(1) The Permittee shall monitor the surface tension of the electroplating bath during tank operation according to the following schedule:

(A) The surface tension shall be measured once every 4 hours during operation of the tank with a stalagmometer or a tensionometer as specified in Method 306B, Appendix A of this part.

(B) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.

(C) Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (B) above. For example, if a Permittee had been monitoring a tank once every 40 hours and an exceedance occurs, subsequent monitoring would take place once every 4 hours of tank operation, monitoring can occur once every 8 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring can occur once every 40 hours of tank operation.

(2) Once a bath solution is drained from six (6) electroplating tanks and a new solution added, the original monitoring schedule of once every 4 hours must be resumed, with a decrease in monitoring frequency allowed following the procedures in paragraphs (B) and (C) above.

(b) Tank operation or operating time is defined as that time when a part is in the tank and there is a current running through the tank. If the amount of time that no part is in the tank is fifteen minutes or longer, that time is not considered operating time. Likewise, if the amount of time between placing parts in the tank (i.e., when no part is in the tank) is less than fifteen minutes, that time between plating the two parts is considered operating time.

D.1.7 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan (PMP), in accordance with Section B-Preventive Maintenance Plan, of this permit, is required for the six (6) electroplating tanks.

Compliance Determination Requirements [326 IAC 2-1.1-11]

D.1.8 Performance Testing [326 IAC 2-1.1-11] [40 CFR 63.343(b)(2)] [40 CFR 63.7] [40 CFR 63.344][326 IAC20-8-1]

(a) The Permittee is not required to test six (6) electroplating tanks by this permit. However, IDEM may require testing when necessary to determine if the six (6) electroplating tanks are in compliance. If testing is required by the IDEM, compliance with the limit specified in Condition D.1.3 shall be determined by a performance test conducted in accordance with 40 CFR 63.344 and Section C - Performance Testing.

(b) Any change, modification, or reconstruction of six (6) electroplating tanks, the fume suppressant-containing a wetting agent, or monitoring equipment may require additional performance testing conducted in accordance with 40 CFR 63.344 and Section C - Performance Testing.

D.1.9 Establishing Site-Specific Operating Parameter Values [40 CFR 63.343(c)] [40 CFR 63.344(d)][326 IAC 20-8-1]

In lieu of establishing the maximum surface tension during a performance test, the Permittee shall accept 45 dynes/cm as the maximum surface tension value that corresponds to compliance with the applicable emission limitation. The Permittee is exempt from conducting a performance test only if the criteria of 40 CFR 63-343(b)(2) are met.

Record Keeping and Reporting Requirements [326 IAC 2-6.1(a)(2)]

D.1.10 Record Keeping Requirements [40 CFR 63.346][326 IAC 20-8-1]

The Permittee shall maintain records to document compliance with Conditions D.1.3, D.1.4 and D.1.5. These records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit and include a minimum of the following:

(a) Inspection records for the fume suppressant-containing a wetting agent and monitoring equipment to document that the inspection and maintenance required by Conditions D.1.9 and D.1.6 have taken place. The record can take the form of a checklist and should identify the following:

(1) The device inspected;

(2) The date of inspection;

(3) A brief description of the working condition of the device during the inspection, including any deficiencies found; and

(4) Any actions taken to correct deficiencies found during the inspection, including the date(s) such actions were taken.

(b) Records of all maintenance performed on six (6) electroplating tanks and monitoring equipment.

(c) Records of the occurrence, duration, and cause (if known) of each malfunction of six (6) electroplating tanks and monitoring equipment.

(d) Records of the occurrence, duration, and cause (if known) of each period of excess emissions of six (6) electroplating tanks and monitoring equipment as indicated by monitoring data collected in accordance with this condition.

(e) Records of actions taken during periods of malfunction or excess emissions when such actions are inconsistent with the OMP.

(f) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the OMP.

(g) Test reports documenting results of all performance tests.

(h) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance.

(i) Records of monitoring data required by 40 CFR 63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected.

(j) The total process operating time, as defined in Condition D.1.6(b), of each tank, during the reporting period.

(k) Records of the date and time that fume suppressants were added to the electroplating bath, and the amount and type of fume suppressants added.

(l) All documentation supporting the notifications and reports required by 40 CFR 63.9 and 63.10 (Subpart A, General Provisions) and by Condition D.1.11.

D.1.11 Reporting Requirements [326 IAC 3-6-4(b)] [40 CFR 63.344(a), 63.345 and 63.347][326 IAC 20-8-1]

The notifications and reports required in this section shall be submitted to IDEM, OAQ using the address specified in Section C - General Reporting Requirements.

(a) Notifications:

(1) Initial Notifications
The Permittee notified IDEM, OAQ in writing that the source was subject to 40 CFR Part 63, Subpart N. The notification was submitted no later than one hundred eighty (180) days after the compliance date and shall contain the information listed in 40 CFR 63.347(c)(1).

(2) A Notification of Compliance Status (NCS) is required each time that the facility becomes subject to the requirements of 40 CFR Part 63 Subpart N.

(A) The NCS shall be submitted to IDEM, OAQ, and shall list, for each tank, the information identified in 40 CFR 63.347(e)(2).

(B) The NCS for the six (6) electroplating tanks was submitted to IDEM, OAQ.

(3) Notification of Construction or Reconstruction
Pursuant to 40 CFR 63.345(b)(1), the Permittee may not construct a new tank subject to 40 CFR 63, Subpart N (including non-affected tanks defined in 40 CFR 63.344(e)) without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ. In addition, the Permittee may not change, modify, or reconstruct six (6) electroplating tank lines without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ.

(A) The NCR shall contain the information identified in 40 CFR 63.345(b) (2) and (3).

(B) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both existing tanks and non-affected facilities by a common control technique or device.

(C) A complete application to construct new chromium electroplating or chromium anodizing tanks serves as this notification. Likewise, the complete application to modify or reconstruct six (6) electroplating tanks, serves as this notification.

(D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, OAQ before construction, modification, or reconstruction may commence.

(b) Ongoing Compliance Status Report
The Permittee shall prepare summary reports to document the ongoing compliance status of six (6) electroplating tanks using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because six (6) electroplating tank lines are located at a site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, OAQ upon request.

(1) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).

(A) The first report shall cover the period from the issuance date of this permit to December 31 of the year in which the permit is issued.

(B) Following the first year of reporting, the report shall be completed on a calendar year basis with the reporting period covering from January 1 to December 31.

(2) If both the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, OAQ:

(A) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined in Condition D.1.6(b) for the reporting period; and

(B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment if five percent (5%) or greater of the total operating time as defined in Condition D.1.6(b).

Once the Permittee reports an exceedance as defined above, Ongoing Compliance Status Reports shall be submitted semiannually until a request to reduce reporting frequency in accordance with 40 CFR 63.347(g)(2) is approved.

(3) IDEM, OAQ may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description:

(e) One (1) Kewanee boiler, burning natural gas, with a maximum heat input capacity of 12.55 million British thermal unit per hour (MMBtu/per hour), exhausting at stack A. This unit was installed in 1982.

(f) One (1) Johnston boiler, burning natural gas, with a maximum heat input capacity of 20.78 million British thermal unit per hour (MMBtu/per hour), exhausting at stack B. This unit was installed in 2001.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.2.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the Johnston Boiler described in this section except when otherwise specified in 40 CFR Part 60, Subpart Dc.

D.2.2 Particulate [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3 (e) (Particulate Emission Limitations for Sources of Indirect Heating: emission limitations for facilities specified in 326 IAC 6-2-1 (b)), particulate emissions from all facilities used for indirect heating which were existing and in operation after June 8, 1972, shall in no case exceed 0.6 pounds of particulate matter per million British thermal units heat input. Therefore, the 12.55 MMBtu per hour Kewanee boiler shall not exceed 0.6 pounds of particulate matter per MMBtu heat input.

D.2.3 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a) (Particulate Emission Limitations for Sources of Indirect Heating), the particulate emissions from the 20.78 MMBtu/hour Johnston boiler shall not exceed 0.43 pounds per million British thermal units heat input.

This limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where Pt = Pounds of particulate matter emitted per million Btu (lb per MMBtu) heat input.
Q = Total source maximum operating capacity rating in million Btu per hour heat input (33.1 MMBtu/hour)

D.2.4 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.2.5 Record Keeping Requirements

(a) Pursuant to 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial - Commercial - Industrial Steam Generating Units), the Permittee shall maintain daily fuel records for one (1) natural gas fired Johnston boiler.

(b) To document compliance with Condition D.2.4, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description:

(g) One (1) degreasing operation, using alkaline spray cleaner with a maximum throughput capacity of 1,250 gallons per year. This unit was constructed in 1989.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description:

(h) One (1) natural gas fired water spray line heater, with a maximum heat input capacity of 1.75 million British thermal unit per hour (MMBtu/hr). This units was installed in 1982.

(i) One (1) rack coating oven burning natural gas, with a maximum heat input capacity of 0.8 million British thermal unit per hour (MMBtu/hr). This unit was installed in 1982.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

There are no specifically applicable regulations that apply to these emission units.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	**State Plating, Inc.**
Address:	**450 North, 9th Street**
City:	**Elwood, Indiana 46036**
Phone #:	**(765) 552-5047**
MSOP #:	**095-11721-00111**

I hereby certify that State Plating, Inc. is **9** still in operation.
9 no longer in operation.

I hereby certify that State Plating, Inc. is **9** in compliance with the requirements of MSOP 095-11721-00111
9 not in compliance with the requirements of MSOP 095-11721-0011

Authorized Individual (typed):	***(reviewer don't fill in this and the next table)***
Title:	
Signature:	
Date:	

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-5967

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY:_____PHONE NO. ( )_____
LOCATION: (CITY AND COUNTY)_____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP:_____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON:_____

DATE/TIME MALFUNCTION STARTED: _____/_____/ 20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION:_____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER:_____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS:_____
_____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES:_____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS:_____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT:_____
INTERIM CONTROL MEASURES: (IF APPLICABLE)_____
_____

MALFUNCTION REPORTED BY:_____TITLE:_____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY:_____DATE:_____TIME:_____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

_____

_____

September 12, 2003

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Minor Source Operating Permit

Source Background and Description

Source Name:	State Plating, Inc.
Source Location:	450 North 9th Street, Elwood, Indiana 46036
County:	Madison
SIC Code:	3471
Operation Permit No.:	095-11721-00111
Permit Reviewer:	ERG/SD

The Office of Air Quality (OAQ) has reviewed an application from State Plating relating to the operation of decorative chromium electroplating plant using hexavalent chrome.

Unpermitted Emission Units and Pollution Control Equipment

The source consists of the following unpermitted facilities/units:

(a) One (1) Decorative Chromium Electroplating Operation (identified as Big Auto) consisting of:

(1) Two (2) decorative chromium electroplating tanks, identified as BA 1 and BA2, using a hexavalent chromium bath, equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1967.

(2) One (1) soak cleaner tank with a maximum capacity of 2000 gallons.

(3) One (1) electro acid tank with a maximum capacity of 1000 gallons.

(4) One (1) strong acid tank with a maximum capacity of 1000 gallons.

(5) One (1) electro cleaner tank with a maximum capacity of 1000 gallons.

(6) One (1) bright nickel plating tank with a maximum capacity of 16,000 gallons.

(b) One (1) Decorative Chromium Electroplating Operation (identified as Ponca) consisting of:

(1) One (1) decorative chromium electroplating tank, identified as HO1, using a hexavalent chromium bath and equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1977.

(2) Two (2) soak cleaner tanks, each with a maximum capacity of 2500 gallons.

(3) One (1) electro acid tank with a maximum capacity of 2500 gallons.

(4) One (1) strong acid tank with a maximum capacity of 2000 gallons.

(5) One (1) electro cleaner tank with a maximum capacity of 2500 gallons.

(6) Two (2) bright nickel plating tanks of 15000 gallons and 2500 gallons capacity.

(7) One (1) semi bright nickel plating tank with a maximum capacity of 7000 gallons.

(c) One (1) Decorative Chromium Electroplating Operation (identified as Udylite) consisting of:

(1) One (1) decorative chromium electroplating tank, identified as UD1, using a hexavalent chromium bath and equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1981.

(2) One (1) soak cleaner tank with a maximum capacity of 400 gallons.

(3) One (1) electro acid tank with a maximum capacity of 300 gallons.

(4) One (1) strong acid tank with a maximum capacity of 100 gallons.

(5) Two (2) electro cleaner tanks, each with a maximum capacity of 300 gallons.

(6) One (1) bright nickel plating tank with a maximum capacity of 3000 gallons.

(d) One (1) Decorative Chromium Electroplating Operation (identified as Eagle or Ponca) consisting of:

(1) Two (2) decorative chromium electroplating tanks, identified as PO1 and PO2, using a hexavalent chromium bath, equipped with a fume suppressant containing a wetting agent as control. This unit was constructed in 1984.

(2) One (1) soak cleaner tank with a maximum capacity of 1600 gallons.

(3) One (1) electro acid tank with a maximum capacity of 1600 gallons.

(4) One (1) strong acid tank with a maximum capacity of 850 gallons.

(5) Two (2) electro cleaner tanks, each with a maximum capacity of 1600 gallons.

(6) One (1) bright nickel plating tank with a maximum capacity of 14,000 gallons.

(e) One (1) Kewanee boiler, burning natural gas, with a maximum heat input capacity of 12.55 MMBtu per hour and exhausting at stack A. This unit was installed in 1982.

(f) One (1) Johnston boiler, burning natural gas, with a maximum heat input capacity of 20.78 MMBtu per hour and exhausting at stack B. This unit was installed in 2001.

(g) One (1) degreasing operation, using alkaline based spray cleaner with a maximum throughput rate of 1250 gallons per year. This unit was constructed in 1989.

(h) One (1) natural gas fired water spray line heater, with a maximum heat input capacity of 1.75 MMBtu per hour. This unit was installed in 1982.

(i) One (1) natural gas fired rack coating oven, with a maximum heat input capacity of 0.8 MMBtu per hour. This unit was installed in 1982.

New Emission Units and Pollution Control Equipment Receiving Prior Approval

There are no new construction activities included in this permit.

Existing Approvals

No previous approvals have been issued to this source.

Enforcement Issue

(a) IDEM is aware that equipment has been operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled Unpermitted Emission Units and Pollution Control Equipment. The source failed to submit an operating permit application within the time required by 326 IAC 2-5.1-2 rule. Hence the source has been operating without a proper permit.

(b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the operation permit rules.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Length & Width (feet 2)	Flow Rate (acfm)	Temperature (^{0}F)
B01	Johnston Boiler	35	22	--	346	250
B02	Kewanee Boiler	35	22	--	209	325
SW	Spray Wash	25	--	8x10	17-Stage 1 12.5 - Stage 2	780
RC	Rack Coating Oven	22	--	12 x 12	15.13	325

Recommendation

The staff recommends to the Commissioner that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on December 28, 1999, with additional information received on April 11, 2003 and April 29, 2003.

Emission Calculations

(a) Chromium emissions (single HAP) from the biggest source in Indiana is less than ten (10) tons per year. Therefore, no calculations were necessary for the decorative chromium electroplating operation because the emissions from this source will be less than ten (10) tons per year.

(b) See Appendix A of this document for detailed emissions calculations to degreasing operations, boilers and combustion units. (Appendix A, pages 1 through 6).

Potential To Emit of Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential To Emit (tons/year)
PM	1.19
PM10	1.19
SO_2	0.09
VOC	5.26
CO	13.2
NO_x	15.67

HAP's	Potential To Emit (tons/year)
Single HAP	<10
Combination of HAPs	<25

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of pollutants are less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

(b) Pursuant to 326 IAC 2-5.1-3(a)(2)(A), this source is subject to the provisions of 326 IAC 2-6.1-2 because the source operates chromium electroplating lines. A MSOP will be issued.

(c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year, therefore, the source is not subject to the provisions of 326 IAC 2-7.

(d) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD applicability.

County Attainment Status

The source is located in Madison County.

Pollutant	Status
PM10	Attainment
SO_2	Attainment
NO_2	Attainment
Ozone	Attainment

CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Madison County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) Madison County has been classified as attainment or unclassifiable for all criterial pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(c) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD, Part 70 or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/year)
PM	1.19
PM10	1.19
SO_2	0.09
VOC	5.26
CO	13.2
NO_x	15.67

(a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not in one of the 28 listed source categories.

(b) These emissions were based on the potential to emit calculations (see Appendix A).

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)
This existing source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

(a) each criteria pollutant is less than 100 tons per year,

(b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and

(c) any combination of HAPs is less than 25 tons/year.

This status is based on the potential to emit calculations (see Appendix A).

Federal Rule Applicability

(a) Although the Kewanee boiler has a maximum heat input capacity greater than 10 MMBtu/hour, it is not subject to the New Source Performance Standard, 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (326 IAC 12) because it was constructed prior to the applicability date of June 9, 1989 and has not been modified or reconstructed.

(b) The Johnston boiler is subject to the requirements of the New Source Performance Standard, 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (326 IAC 12) because this boiler was constructed after June 9, 1989 and has a heat input capacity greater than 10 MMBtu/hour and less than 100 MMBtu/hour. However, the Johnston boiler is subject to only the reporting requirements in 40 CFR 60.48c, because it is a natural gas-fired boiler. As per the reporting requirements, the source must maintain daily records of the amount of natural gas combusted. If the source desires to change the timing of the recording of the fuel combusted from daily recording to monthly recording, then the source must send in this request to the following address:

George Czerniak
c/o United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17 J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

This request should reference the NSPS requirement.

There are no other New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.

(c) The degreasing operations are not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63, Subpart T (National Emission Standards for Halogenated Solvent Cleaning (326 IAC 14)), because only non-halogenated solvents are used for this operation.

(d) The six (6) chrome electroplating tanks are subject to the National Emission Standards for Hazardous Air Pollutants, 326 IAC 14, 40 CFR 63. Subpart N - National Emissions Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks.

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart N.

The chromium electroplating operations are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 326 IAC 14, (40 CFR 63, Subpart N, and 326 IAC 20-1-1). Pursuant to 40 CFR 63, Subpart N, and 326 IAC 20-1-1, the chromium electroplating operations are subject to the following conditions:

(1) The surface tension of the chromium electroplating bath contained with the tank shall not exceed forty-five (45) dynes per centimeter at any time during the operation of the tank if a chemical fume suppressant containing a wetting agent is used to demonstrate compliance.

(2) Each time that surface tension monitoring exceeds forty-five (45) dynes per centimeter, the frequency of monitoring must revert back to every four (4) hours of tank operation. After forty (40) hours of monitoring tank operation every four (4) hours with no exceedances, surface tension measurement may be conducted once every eight (8) hours of tank operation. Once there have been no exceedances during forty (40) hours of tank operation, surface tension measurement may be conducted once every forty (40) hours of tank operation on an ongoing basis, until an exceedance occurs.

(3) An alternative emission limit of 0.01 milligram per day standard cubic meter (mg/dscm) will be applicable if the chromium electroplating bath does not meet the limit above.

(4) A summary report shall be prepared to document the ongoing compliance status of the chromium electroplating operation. This report shall be completed annually, retained on site, and made available to IDEM upon request. If there is significant exceedance of chromium air emission limits (as defined in 40 CFR Part 63.347(h)(2)), then semiannual reports shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Branch, Office of Air Quality
Chromium Electroplating
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206

(5) The chromium electroplating operations shall be subject to the record keeping and reporting requirement as indicated in the chromium electroplating NESHAP.

There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This source was constructed prior to 1977 and is not in one (1) of the twenty-eight (28) listed source categories. The source was modified in 1977 and 1981 to add two (2) chrome electroplating lines, identified as Hoist and Udylite respectively; in 1982 to add a 12.55 MMBtu per hour natural gas fired Kewanee boiler; in 1984 to add one (1) chrome electroplating line identified as Eagle (or Ponca); and in 2001 to add a 20.78 MMBtu per hour natural gas fired Johnston boiler. After each of these modifications, the potential to emit of each criteria pollutant from the entire source remained less than 250 tons per year. Therefore, this source is an existing minor source and the requirements of 326 IAC 2–2 are not applicable.

326 IAC 2-6 (Emission Reporting)

This source is located in Madison County and the potential to emit PM10, VOC, SO_2, NO_x, and CO are less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The decorative chromium electroplating operations will emit less than 10 tons per year of a single HAP or 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

State Rule Applicability - Seven (7) Chromium Electroplating Tanks

326 IAC 8-1-6 (New Facilities - General Reduction Requirement)

The six (6) decorative chromium electroplating tanks do not have potential to emit emissions of VOC greater than twenty five (25) tons per year. Therefore, this source is not subject to the provisions of 326 IAC 8-1-6.

State Rule Applicability - Natural Gas Fired Boilers

326 IAC 6-2-3(a) (Particulate Emission Limitations for Sources of Indirect Heating)

Pursuant to 326 IAC 6-2-3, the particulate emissions from the 12.554 MMBtu/hour Kewanee boiler, which was existing and in operation before September 21, 1983 shall not exceed the particulate emission rate calculated using the following equation:

$$Pt = \frac{(C \times a \times h)}{76.5 \times Q^{0.75} \times N^{0.25}} = \frac{(50)\ (0.67)\ (35)}{76.5 \times (12.55)^{0.75} \times (1)^{0.25}}$$

$$Pt = 2.30 \text{ lbs / MMBtu}$$

where:

Pt	=	Emission rate limit (lbs/MMBtu)
C	=	50 ug/m^3
a	=	Plume rise factor (0.67)
Q	=	Total source heat input capacity rating in million Btu per hour (12.55 MMBtu/hour)
N	=	Number of stacks
h	=	Stack height (ft)

However, 326 IAC 6-2-3(e) states that boilers constructed after June 8, 1972 shall in no case exceed 0.6 pounds of particulate matter per MMBtu heat input. Since the 0.6 pounds particulate matter per MMBtu emission limit is less than the limit calculated using the equation, the 12.554 MMBtu per hour boiler shall be limited to 0.6 pounds of particulate matter per MMBtu heat input.

326 IAC 6-2-4 (a) (Particulate Emissions Limitations for Sources of Indirect Heating)

Pursuant to 326 IAC 6-2-4(a), the particulate emissions from the 20.78 MMBtu per hour Johnston boiler which was existing and in operation after September 21, 1983 shall be limited to 0.43 pounds per MMBtu heat input.

This limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

$$Pt = \frac{1.09}{(33.1)^{0.26}} = 0.43$$

where:

Pt = emission rate limit (lbs per MMBtu)
Q = total source heat input capacity rating in million Btu per hour (33.1 MMBtu per hour)

State Rule Applicability - Cold Cleaner Operation

326 IAC 8-3 (Organic Solvent Degreasing Operation)

(a) The degreasing operations are subject to the requirements of 326 IAC 8-3-2(Cold Cleaner Operations) and because the degreaser was constructed after January 1, 1980.

Pursuant to 326 IAC 8-3-2, the Permittee shall:

(1) Equip the cleaner with a cover;

(2) Equip the cleaner with a facility for draining cleaned parts;

(3) Close the degreaser cover whenever the parts are not being handled in the cleaner;

(4) Drain cleaned parts for at least fifteen (15) second or until dripping ceases;

(5) Provide a permanent, conspicuous label summarizing the operation requirements;

(6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

(b) The degreasing operations are not subject to the requirements of 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control) because it was existing prior to July 1, 1990 applicability date for this rule.

State Rule Applicability - Water Spray Line Heater and Rack Coating Oven

There are no specifically applicable regulations that apply to these emission units.

Conclusion

The operation of this decorative chromium electroplating plant shall be subject to the conditions of the attached Minor Source Operating Permit 095-11721-00111.

Appendix A: Emission Calculations
Natural Gas Combustion Only
Two (2) Boilers

Company Name: State Plating
Address: 450 North, 9th Street, Elwood, Indiana 46036
MSOP: 095-11721-00111
Plt ID: 095-00111
Reviewer: ERG/SD
Date: May 8, 2003

Total Heat Input Capa(MMBtu/hour		Potential Throughput MMCF/year
33.1	(2 units total)	290.0

Pollutant

	PM*	PM10*	SO_2	NO_x	VOC	CO
Emission Factor (lb/MMCF)	7.6	7.6	0.6	100.0 **see below	5.5	84.0
Potential To Emit (tons/year)	1.10	1.10	0.09	14.50	0.80	12.2

*PM and PM10 emission factors are filterable and condensible PM and PM10 combined.
**Emission Factors for NO_x: Uncontrolled = 100, Low NO_x Burner = 50, Low NO_x Burners/Flue gas recirculation = 32

Methodology

All Emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).

Potential Throughput (MMCF/year) = Heat Input Capacity (MMBtu/hr) * 8760 hours/year * 1 MMCF/1000 MMBtu
Potential To Emit (tons/year) = Potential Throughput (MMCF/year) * Emission Factor (lb/MMCF) * 1 ton//2000 lbs

See next page for HAPs emissions calculations.

Appendix A: Emission Calculations
Natural Gas Combustion Only
Two (2) Boilers

Company Name: State Plating
Address: 450 North, 9th Street, Elwood, Indiana 46036
MSOP: 095-11721-00111
Plt ID: 095-00111
Reviewer: ERG/SD
Date: May 8, 2003

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor (lb/MMCF)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential To Emit (tons/year)	3.05E-04	1.74E-04	1.09E-02	2.61E-01	4.93E-04

HAPs - Metals

	Lead	Cadmuim	Chromium	Manganese	Nickel
Emission Factor (lb/MMCF)	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential To Emit (tons/year)	7.25E-05	1.60E-04	2.03E-04	5.51E-05	3.05E-04

Methodology is the same as previous page.

The five highest organic and metal HAPs emission factors as provided above are from AP-42, Chapter 1.4, Table 1-4.2, 1.4-3 and 1.4-4 (July, 1998)..
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emission Calculations
Natural Gas Combustion Only
Water Spray Line Heater and Rack Coating Oven

Company Name: State Plating
Address: 450 North, 9th Street, Elwood, Indiana 46036
MSOP: 095-11721-00111
Plt ID: 095-00111
Reviewer: ERG/SD
Date: May 8, 2003

Total Heat Input Capacity MMBtu/hour		Potential Throughput MMCF/year
2.7	(3 units total)	23.3

Pollutant

	PM*	PM10*	SO2	NO_x	VOC	CO
Emission Factor (lb/MMCF)	7.6	7.6	0.6	100.0 **see below	5.5	84.0
Potential To Emit (tons/year)	0.09	0.09	0.01	1.16	0.06	0.98

*PM and PM10 emission factors are filterable and condensible PM and PM10 combined.
**Emission Factors for NO_x: Uncontrolled = 100, Low NO_x Burner = 50, Low NO_x Burners/Flue gas recirculation = 32

Methodology

All Emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).

Potential Throughput (MMCF/year) = Heat Input Capacity (MMBtu/hr) * 8760 hours/year * 1 MMCF/1000 MMBtu
Potential To Emit (tons/year) = Potential Throughput (MMCF/year) * Emission Factor (lb/MMCF) * 1 ton//2000 lbs

See next page for HAPs emissions calculations.

Appendix A: Emission Calculations
Natural Gas Combustion Only
Water Spray Line Heater and Rack Coating Oven

Company Name: State Plating
Address: 450 North, 9th Street, Elwood, Indiana 46036
MSOP: 095-11721-00111
Plt ID: 095-00111
Reviewer: ERG/SD
Date: May 8, 2003

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor (lb/MMCF)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential To Emit (tons/year)	2.445E-05	1.397E-05	8.732E-04	2.096E-02	3.958E-05

HAPs - Metals

	Lead	Cadmuim	Chromium	Manganese	Nickel
Emission Factor (lb/MMCF)	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential To Emit (tons/year)	5.82E-06	1.28E-05	1.63E-05	4.42E-06	2.44E-05

Methodology is the same as previous page.

The five highest organic and metal HAPs emission factors as provided above are from AP-42, Chapter 1.4, Table 1-4.2, 1.4-3 and 1.4-4 (July, 1998)..
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
VOC Emissions
From Degreasing Operation

Company Name: State Plating
Address: 450 North, 9th Street, Elwood, Indiana 46036
MSOP: 095-11721-00111
Plt ID: 095-00111
Reviewer: ERG/SD
Date: May 8, 2003

Material	Density (lb/gal)	Max. Usage Rate (gal/year)	Max. Usage Rate (tons/year)	VOC Content (Weight %)	PTE VOC (tons/year)
Alkaline Spray Cleaner	10.85	1248	6.77	65%	4.40

State Potential Emissions **4.40**

METHODOLOGY
Maximum Usage Rate (tons/year) = Maximum Usage Rate (gal/year) * Density (lb/gal) * 1 ton/2000 lbs
PTE VOC (tons/year) = Max. Usage Rate (tons/year) * VOC Content %

Appendix A: Emissions Calculations
Summary Emissions

Company Name: State Plating
Address: 450 North, 9th Street, Elwood, Indiana 46036
MSOP: 095-11721-00111
Plt ID: 095-00111
Reviewer: ERG/SD
Date: May 8, 2003

POTENTIAL TO EMIT BEFORE CONTROLS IN TONS PER YEAR

SOURCE	PM	PM10	SO_2	NO_x	VOC	CO	Single HAP	Combined HAP
Boilers	1.10	1.10	0.09	14.5	0.80	12.18	negligible	negligible
Combustion Units	0.09	0.09	0.01	1.2	0.06	0.98	negligible	negligible
Degreasing					4.40			
	1.19	1.19	0.1	15.7	5.26	13.2		